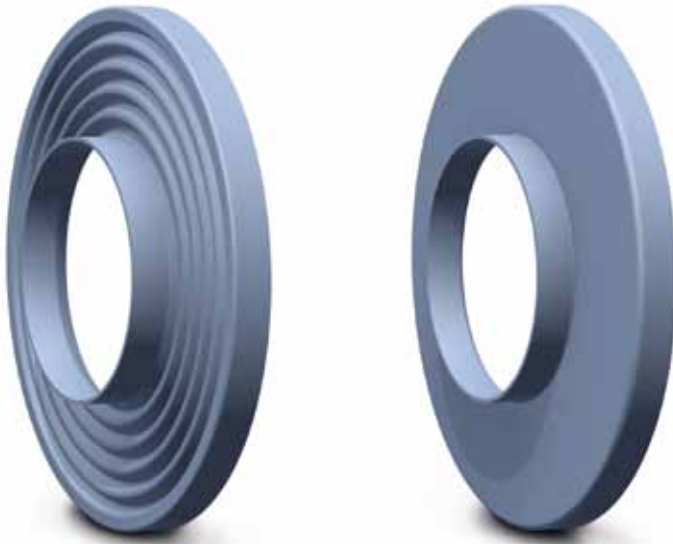


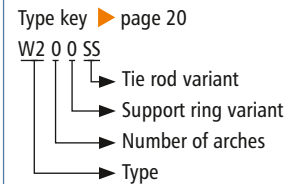
W200x (SS/FS) W300x (SS/FS)

NB 50 to NB 1000



► **Type W200x (SS/FS)**
without steam diffusion barrier

► **Type W300x (SS/FS)**
with steam diffusion barrier

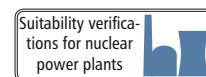


Wall sealing membrane

- Design:** Wall sealing membrane with or without pre-formed folds
Depending on pressure and nominal diameter, using a sleeve for clamp fixing at the wall pipe or dowelled to the wall with a backing flange, with a sleeve for clamp fixing at the medium pipe
Optional steam diffusion barrier W300x (SS/FS)
Optional wall sealing membrane with field connection for installation after the pipeline is laid
Optional allowance for potential eccentricity between medium pipe and wall pipe
- Nominal diameters:** Standard up to NB 1000
Intermediate sizes or other nominal diameter combinations possible
- Installation length:** Standard $L_E = 60$ mm
Other installation lengths on request
- Pressure:** Up to ± 20 mbar
- Movement:** For axial, lateral and angular movements
(► page 254–255)

Application:

Power plants, plant construction, turbine houses, e.g. as a airtight seal or splash guard for pipe penetrations, seals for district heating pipelines, seals for cooling water pipelines



Rubber bellows

Rubber grades			Carrier
up to 200 °C:	Silicon (Q)	Air, water, saltwater atmosphere	without
	Silicon special mix	Nuclear applications	

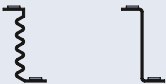
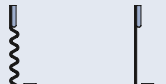
Fastening clamps

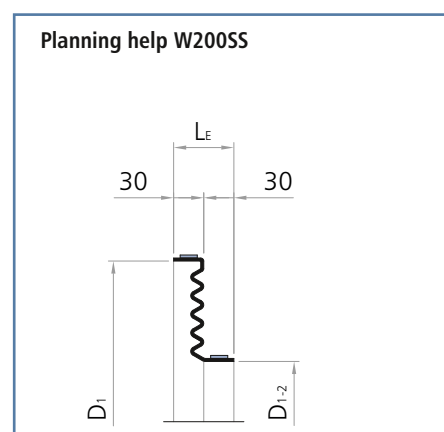
Design:	Screw thread belt or small clamps		
Width:	Screw thread belt:	1/2"	
	Small clamp:	depending on Ø: 9–12 mm	
Materials:	Screw thread belt with threaded screw lug:	1.4310	
	Small clamp, belt and housing:	1.4016 (Screw steel galvanised)	

Flanges

Design:	Multi-part clamping flange with clearance holes		
Flange norms:	According to specification		
Materials:	Carbon steel:	1.0038 (S235JRG2)	
		1.0570 (S355J2G3)	
	Stainless steel:	1.4301 (X5CrNi18-10)	
		1.4571 (X6CrNiMoTi17-12-2)	
	Other materials on request		
Coating:	Primed, hot-dip galvanised, special paint		

Fixing types

TYPE		At the wall pipe	At the medium pipe	Pressure	Nominal diameters
W200SS W300SS		Sleeve	Sleeve	slight	Wall pipe up to NB 1000
W200FS W300FS		Flange	Sleeve	slight	Medium pipe up to NB 1000





W200x (SS/FS)

▶ without steam diffusion barrier






Potential combinations		Movement		
Wall pipe NB	Medium pipe NB			
		mm	mm	± mm
50	10	15	15	13
	15	14	14	12
	20	12	12	10
	25	9	9	8
	32	6	6	5
65	15	19	19	16
	20	17	17	15
	25	15	15	13
	32	12	12	10
80	40	10	10	8
	20	22	22	19
	25	19	19	17
	32	16	16	14
	40	14	14	12
100	50	10	10	9
	25	28	28	24
	32	25	25	22
	40	23	23	20
	50	19	19	16
125	65	13	13	11
	32	34	34	29
	40	32	32	27
	50	28	28	24
	65	22	22	19
150	80	18	18	15
	40	42	42	36
	50	38	38	32
	65	32	32	28
	80	28	28	24
200	100	19	19	16
	65	50	50	43
	80	46	46	39
	100	37	37	31
	125	28	28	24
250	150	18	18	15
	80	64	64	55
	100	56	56	48
	125	47	47	40
	150	37	37	31
300	200	19	19	16
	100	73	73	63
	125	64	64	55
	150	54	54	47
	200	37	37	31
350	250	18	18	15
	125	76	76	65
	150	66	66	56
	200	48	48	41
	250	29	29	25
400	300	11	11	10
	150	83	83	71
	200	66	66	56
	250	47	47	40
	300	29	29	25
350	18	18	15	




Potential combinations		Movement		
Wall pipe NB	Medium pipe NB			
		mm	mm	± mm
450	200	83	83	71
	250	64	64	55
	300	47	47	40
	350	36	36	30
	400	18	18	15
500	250	82	82	71
	300	64	64	55
	350	53	53	46
	400	36	36	30
	450	18	18	15
550	300	82	82	70
	350	71	71	61
	400	53	53	46
	450	36	36	30
	500	18	18	15
600	350	89	89	76
	400	71	71	61
	450	53	53	46
	500	36	36	30
	550	18	18	15
650	400	89	89	76
	450	71	71	61
	500	53	53	46
	550	36	36	30
	600	18	18	15
700	450	89	89	76
	500	71	71	61
	550	53	53	46
	600	36	36	30
	650	18	18	15
750	500	89	89	76
	550	71	71	61
	600	53	53	46
	650	36	36	30
	700	18	18	15
800	400	142	142	122
	450	124	124	107
	500	107	107	91
	600	71	71	61
	700	36	36	30
900	450	160	160	137
	500	142	142	122
	600	107	107	91
	700	71	71	61
	800	36	36	30
1000	500	178	178	152
	600	142	142	122
	700	107	107	91
	800	71	71	61
	900	36	36	30

For wall pipes use nominal diameters if possible.
For medium pipes, all diameters (whole mm) can be delivered.
Other combinations possible.

Individual fabrication possible



Potential combinations		Movement		
Wall pipe NB	Medium pipe NB			
		mm	mm	± mm
50	10	5	5	3
	15	5	5	3
	20	4	4	3
	25	3	3	2
	32	2	2	1
65	15	7	7	4
	20	6	6	4
	25	5	5	3
	32	4	4	3
80	20	8	8	5
	25	7	7	4
	32	6	6	3
	40	5	5	3
100	25	10	10	6
	32	9	9	5
	40	8	8	5
	50	7	7	4
125	32	12	12	7
	40	11	11	7
	50	10	10	6
	65	8	8	5
150	40	15	15	9
	50	14	14	8
	65	12	12	7
	80	10	10	6
200	65	18	18	11
	80	16	16	10
	100	13	13	8
	125	10	10	6
250	80	23	23	14
	100	20	20	12
	125	17	17	10
	150	13	13	8
300	100	26	26	16
	125	23	23	14
	150	19	19	12
	200	13	13	8
350	125	27	27	16
	150	23	23	14
	200	17	17	10
	250	10	10	6
400	150	30	30	18
	200	23	23	14
	250	17	17	10
	300	10	10	6
	350	6	6	4

Potential combinations		Movement		
Wall pipe NB	Medium pipe NB			
		mm	mm	± mm
450	200	30	30	18
	250	23	23	14
	300	17	17	10
	350	13	13	8
	400	6	6	4
500	250	29	29	18
	300	23	23	14
	350	19	19	11
	400	13	13	8
	450	6	6	4
550	300	29	29	18
	350	25	25	15
	400	19	19	11
	450	13	13	8
	500	6	6	4
600	350	32	32	19
	400	25	25	15
	450	19	19	11
	500	13	13	8
	550	6	6	4
650	400	32	32	19
	450	25	25	15
	500	19	19	11
	550	13	13	8
	600	6	6	4
700	450	32	32	19
	500	25	25	15
	550	19	19	11
	600	13	13	8
	650	6	6	4
750	500	32	32	19
	550	25	25	15
	600	19	19	11
	650	13	13	8
	700	6	6	4
800	400	51	51	30
	450	44	44	27
	500	38	38	23
	600	25	25	15
	700	13	13	8
900	450	57	57	34
	500	51	51	30
	600	38	38	23
	700	25	25	15
	800	13	13	8
1000	500	64	64	38
	600	51	51	30
	700	38	38	23
	800	25	25	15
	900	13	13	8

For wall pipes use nominal diameters if possible.
For medium pipes, all diameters (whole mm) can be delivered.
Other combinations possible.

Individual fabrication possible